

August 08, 2014

Brady Gerber  
Integrated Solutions  
215 S. Laura  
Wichita, KS 67211

RE: Project: CLEAN HARBORS-WICHITA  
Pace Project No.: 60175203

Dear Brady Gerber:

Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2014. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sherri Rosenstangle  
sherri.rosenstangle@pacelabs.com  
Project Manager

Enclosures



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

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### Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407

Utah Certification #: KS00021

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## SAMPLE SUMMARY

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60175203001	NBJ1-F2	Solid	08/06/14 14:30	08/06/14 22:35
60175203002	trip blank	Solid	08/06/14 14:30	08/06/14 22:35

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## SAMPLE ANALYTE COUNT

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60175203001	NBJ1-F2	EPA 8260	JKL	4
		ASTM D2974	DWC	1
60175203002	trip blank	EPA 8260	JKL	4

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## ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

**Sample:** NBJ1-F2      **Lab ID:** 60175203001      Collected: 08/06/14 14:30      Received: 08/06/14 22:35      Matrix: Solid

**Results reported on a "dry-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Vinyl chloride	9.8	ug/kg	6.1	1		08/07/14 11:08	75-01-4	
<b>Surrogates</b>								
Toluene-d8 (S)	104	%	80-120	1		08/07/14 11:08	2037-26-5	
4-Bromofluorobenzene (S)	104	%	76-123	1		08/07/14 11:08	460-00-4	
1,2-Dichloroethane-d4 (S)	116	%	75-129	1		08/07/14 11:08	17060-07-0	
<b>Percent Moisture</b>		Analytical Method: ASTM D2974						
Percent Moisture	17.5	%	0.50	1		08/07/14 00:00		

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## ANALYTICAL RESULTS

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

**Sample:** trip blank      **Lab ID:** 60175203002      Collected: 08/06/14 14:30      Received: 08/06/14 22:35      Matrix: Solid

**Results reported on a "wet-weight" basis**

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV 5035A VOA</b>		Analytical Method: EPA 8260						
Vinyl chloride	ND	ug/kg	5.0	1		08/07/14 10:52	75-01-4	
<b>Surrogates</b>								
Toluene-d8 (S)	100 %		80-120	1		08/07/14 10:52	2037-26-5	
4-Bromofluorobenzene (S)	92 %		76-123	1		08/07/14 10:52	460-00-4	
1,2-Dichloroethane-d4 (S)	75 %		75-129	1		08/07/14 10:52	17060-07-0	

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## QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

QC Batch: MSV/63417

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV 5035A Volatile Organics

Associated Lab Samples: 60175203001, 60175203002

METHOD BLANK: 1421812

Matrix: Solid

Associated Lab Samples: 60175203001, 60175203002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/kg	ND	5.0	08/07/14 10:23	
1,2-Dichloroethane-d4 (S)	%	104	75-129	08/07/14 10:23	
4-Bromofluorobenzene (S)	%	100	76-123	08/07/14 10:23	
Toluene-d8 (S)	%	104	80-120	08/07/14 10:23	

LABORATORY CONTROL SAMPLE: 1421813

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vinyl chloride	ug/kg	100	103	103	57-132	
1,2-Dichloroethane-d4 (S)	%			101	75-129	
4-Bromofluorobenzene (S)	%			103	76-123	
Toluene-d8 (S)	%			105	80-120	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALITY CONTROL DATA

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

QC Batch: PMST/9891

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 60175203001

METHOD BLANK: 1421901

Matrix: Solid

Associated Lab Samples: 60175203001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	08/07/14 00:00	

SAMPLE DUPLICATE: 1421902

Parameter	Units	60175203001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.5	17.3	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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## QUALIFIERS

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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## QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLEAN HARBORS-WICHITA

Pace Project No.: 60175203

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60175203001	NBJ1-F2	EPA 8260	MSV/63417		
60175203002	trip blank	EPA 8260	MSV/63417		
60175203001	NBJ1-F2	ASTM D2974	PMST/9891		

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# Sample Condition Upon Receipt

WO#: 60175203



60175203

Client Name: isi

Courier: Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace ☐ Other ☒ exp

Tracking #: \_\_\_\_\_ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☐ Other ☒ 2PIC

Thermometer Used: T-239 / T-194

Type of Ice: Wet Blue ☐ None ☐ Samples received on ice, cooling process has begun.  
(circle one)

Cooler Temperature: 3.2

Date and initials of person examining contents: 8/7/14

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6. <u>KIK</u>
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>1 day</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Includes date/time/ID/analyses Matrix: <u>SL</u>		13.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Exceptions: <u>VOA</u> coliform, TOC, O&G, WI-DRO (water), Phenolics	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Initial when completed
Trip Blank present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased): <u>102-813-3</u>		15.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	17. List State: <u>Ks</u>

Client Notification/ Resolution: Copy COC to Client? Y / N Field Data Required? Y N

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: [Signature]

Date: 8.7.14

<b>Section A</b>	<b>Section B</b>	<b>Section C</b>
<b>Required Client Information:</b>	<b>Required Project Information:</b>	<b>Invoice Information</b>
Company: 75 Environmental	Report To: 75	Attention:
Address: 215 S. Lava	Copy To:	Company Name: Clean Harbors
Email To: Wichita KS 67212	Purchase Order No.:	Address:
Phone: 316-264-7070	Project Name: Clean Harbors - Wichita	Pace Quote Reference:
Fax:	Project Number:	Pace Project Manager: Sherri Rosenstangle
Requested Due Date/TAT: 24 hr TAT		Pace Profile #: 7739.1
		<b>REGULATORY AGENCY</b>
		<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
		<input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER _____
		<b>Site Location</b>
		<b>STATE:</b> KS

[illegible][illegible]